

XIAMEN LEEDARSON IMPORT & EXPORT CO., LTD.

Compact Fluorescent Lamp

Model Number: NHSC14, NHSC11, NHSC09, NHSC07

Prepared for : XIAMEN LEEDARSON IMPORT & EXPORT CO., LTD..
6B, JINSHAN BUILDING, NO.862 XIAHE ROAD,
XIAMEN, CHINA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS-F07083
Date of Test : Feb.09~12, 2007
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TEST REPORT DECLARATION

Applicant : XIAMEN LEEDARSON IMPORT & EXPORT CO., LTD.
 Manufacturer : LEEDARSON LIGHTING CO., LTD.
 EUT Description : Compact Fluorescent Lamp
 (A) MODEL NO. : NHSC14, NHSC11, NHSC09, NHSC07
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : AC 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C RF LIGHTING DEVICES
 CONSUMER (1998) AND MP-5/1986

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits for radiation and conduction emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

This report must not be used by the applicant to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

Date of Test : Feb.09~12, 2007

Prepared by : YoYo Wang
 YoYo Wang / Assistant

Reviewer : Sean Xing
 Sean Xing / Assistant Manager



Approved & Authorized Signer : Ken Lu
 Ken Lu / Deputy Manager

Name of the Representative of the Responsible Party : _____

Signature : _____

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 18C ANSI C63.4: 2003	PASS
Magnetic Field Emission Test	FCC Part 18C	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Compact Fluorescent Lamp
Model Number	:	NHSC14, NHSC11, NHSC09, NHSC07
Applicant	:	XIAMEN LEEDARSON IMPORT & EXPORT CO., LTD. 6B, JINSHAN BUILDING, NO.862 XIAHE ROAD, XIAMEN, CHINA
Manufacturer	:	LEEDARSON LIGHTING CO., LTD. BAOSHUI ROAD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, ZHANGZHOU CITY, CHINA
Date of Test	:	Feb.09~12, 2007

Remark:

Model:NHSC14

120V 60Hz E26

Serial No.	Location	Name	Specification	Manufacturer	File No.	Remark
1	C2	Electrolytic Capacitor	15u/200V 105℃	Any		
2	C1	Capacitor	47n/250V	Any		
3	C3	Capacitor	22n/50V	Any		
4	C4	Capacitor	1n0/1000V	Any		
5	C5	Capacitor	47n/250V	Any		
6	C6	Capacitor	2n2/1000V	Any		
7	C7	Capacitor	4n0/1000V	Any		
8	D1~D5	Diode	1N4007	Any		
9	DB3	Diac	DB3	Any		
10	R1 R2	Resistor	560K Ω 1/4W	Any		
11	R3 R5	Resistor	10 Ω 1/4W	Any		
12	R4 R6	Resistor	0.51 Ω 1/4W	Any		
13	T1 T2	Transistor	13003 T0-92	WUXI HUAJING MICROELECTRONICS CO., LTD.		
14	L3	Inductor/Chock	EE13 1.8mH±5%	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
				JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.	E165111	Polyester tape PZ280
				GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	BOBIN PBT 130℃
15	FU	Fuse	1A/250V , 32S	HOLLYLAND CO., LTD.	E156471	
16		Extruded Tubing	Φ4mm UL 125℃	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	
17	L1	Inductor	Φ6*8 1mH	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	Heat-shrinkable Tube/125℃
				SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
18	L2	Ring Magnet	9×5×3	Any		
19		Ring Magnet Wire	WIRE 2UEW155℃	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	
20		PCB	DS-T2-A, LDS-T2-B 94V0 130℃	XIAMEN TOPSUN ELECTRONIC TECHNOLOGY	E252242	
21		Sleeving	Φ1	SHENZHEN WAHCHANGWEI INDUSTRIAL CO., LTD.	E233803	
22	S2	Wire	1569 24AWG	SHENZHEN QIFURUI ELECTRONICS CO., LTD.	E211048	
23		Plastic	PBT-RG301(r1) V-0 130℃	GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	
24		Base	E26	Any		
26		Tube	D=45mm 3.25T	Any		

Model:NHSC11

120V 60Hz E26

Serial No.	Location	Name	Specification	Manufacturer	File No.	Remark
1	C2	Electrolytic Capacitor	10u/200V 105℃	Any		
2	C1	Capacitor	47n/250V	Any		
3	C3	Capacitor	22n/50V	Any		
4	C4	Capacitor	1n0/1000V	Any		
5	C5	Capacitor	47n/250V	Any		
6	C6	Capacitor	2n2/1000V	Any		
7	C7	Capacitor	3n3/1000V	Any		
8	D1~D5	Diode	1N4007	Any		
9	DB3	Diac	DB3	Any		
10	R1 R2	Resistor	560K Ω 1/4W	Any		
11	R3 R5	Resistor	10 Ω 1/4W	Any		
12	R4 R6	Resistor	0.51 Ω 1/4W	Any		
13	T1 T2	Transistor	13002 T0-92	WUXI HUAJING MICROELECTRONICS CO., LTD.		
14	L3	Inductor/Chock	EE13 1.8mH±5%	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
				JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.	E165111	Polyester tape PZ280
				GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	BOBIN PBT 130℃
15	FU	Fuse	1A/250V , 32S	HOLLYLAND CO., LTD.	E156471	
16		Extruded Tubing	Φ4mm UL 125℃	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	
17	L1	Inductor	Φ6*8 1mH	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	Heat-shrinkable Tube/125℃
				SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
18	L2	Ring Magnet	9×5×3	Any		
19		Ring Magnet Wire	WIRE 2UEW155℃	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	
20		PCB	DS-T2-A, LDS-T2-B 94V0 130℃	XIAMEN TOPSUN ELECTRONIC TECHNOLOGY	E252242	
21		Sleeving	Φ1	SHENZHEN WAHCHANGWEI INDUSTRIAL CO., LTD.	E233803	
22	S2	Wire	1569 24AWG	SHENZHEN QIFURUI ELECTRONICS CO., LTD.	E211048	
23		Plastic	PBT-RG301(r1) V-0 130℃	GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	
24		Base	E26	Any		
26		Tube	D=45mm 2.5T	Any		

Model:NHSC09

120V 60Hz E26

Serial No.	Location	Name	Specification	Manufacturer	File No.	Remark
1	C2	Electrolytic Capacitor	8.2u/200V 105℃	Any		
2	C1	Capacitor	47n/250V	Any		
3	C3	Capacitor	22n/50V	Any		
4	C4	Capacitor	1n0/1000V	Any		
5	C5	Capacitor	47n/250V	Any		
6	C6	Capacitor	2n2/1000V	Any		
7	C7	Capacitor	3n3/1000V	Any		
8	D1~D5	Diode	1N4007	Any		
9	DB3	Diac	DB3	Any		
10	R1 R2	Resistor	560K Ω 1/4W	Any		
11	R3 R5	Resistor	10 Ω 1/4W	Any		
12	R4 R6	Resistor	0.51 Ω 1/4W	Any		
13	T1 T2	Transistor	13002 T0-92	WUXI HUAJING MICROELECTRONICS CO., LTD.		
14	L3	Inductor/Chock	EE13 2.0mH±5%	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
				JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.	E165111	Polyester tape PZ280
				GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	BOBIN PBT 130℃
15	FU	Fuse	1A/250V . 32S	HOLLYLAND CO., LTD.	E156471	
16		Extruded Tubing	Φ4mm UL 125℃	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	
17	L1	Inductor	Φ6*8 1mH	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	Heat-shrinkable Tube/125℃
				SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
18	L2	Ring Magnet	9×5×3	Any		
19		Ring Magnet Wire	WIRE 2UEW155℃	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	
20		PCB	DS-T2-A, LDS-T2-B 94V0 130℃	XIAMEN TOPSUN ELECTRONIC TECHNOLOGY	E252242	
21		Sleeving	Φ1	SHENZHEN WAHCHANGWEI INDUSTRIAL CO., LTD.	E233803	
22	S2	Wire	1569 24AWG	SHENZHEN QIFURUI ELECTRONICS CO., LTD.	E211048	
23		Plastic	PBT-RG301(r1) V-0 130℃	GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	
24		Base	E26	Any		
26		Tube	D=45mm 2T	Any		

Model:NHSC07

120V 60Hz E26

Serial No.	Location	Name	Specification	Manufacturer	File No.	Remark
1	C2	Electrolytic Capacitor	6.8u/200V 105℃	Any		
2	C1	Capacitor	47n/250V	Any		
3	C3	Capacitor	22n/50V	Any		
4	C4	Capacitor	1n0/1000V	Any		
5	C5	Capacitor	47n/250V	Any		
6	C6	Capacitor	2n7/1000V	Any		
7	C7	Capacitor	2n7/1000V	Any		
8	D1~D5	Diode	1N4007	Any		
9	DB3	Diac	DB3	Any		
10	R1 R2	Resistor	560K Ω 1/4W	Any		
11	R3 R5	Resistor	10 Ω 1/4W	Any		
12	R4 R6	Resistor	0.51 Ω 1/4W	Any		
13	T1 T2	Transistor	13002 T0-92	WUXI HUAJING MICROELECTRONICS CO., LTD.		
14	L3	Inductor/Chock	EE13 2.6mH±5%	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
				JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.	E165111	Polyester tape PZ280
				GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	BOBIN PBT 130℃
15	FU	Fuse	1A/250V . 32S	HOLLYLAND CO., LTD.	E156471	
16		Extruded Tubing	Φ4mm UL 125℃	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	
17	L1	Inductor	Φ6*8 1mH	DONGGUAN LIAOBU SANLIAN PLASTIC CO., LTD.	E209436	Heat-shrinkable Tube/125℃
				SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	WIRE 2UEW155℃
18	L2	Ring Magnet	9×5×3	Any		
19		Ring Magnet Wire	WIRE 2UEW155℃	SHANGHAI ASIA PACIFIC ELECTRIC CO., LTD.	E214423	
20		PCB	DS-T2-A, LDS-T2-B 94V0 130℃	XIAMEN TOPSUN ELECTRONIC TECHNOLOGY	E252242	
21		Sleeving	Φ1	SHENZHEN WAHCHANGWEI INDUSTRIAL CO., LTD.	E233803	
22	S2	Wire	1569 24AWG	SHENZHEN QIFURUI ELECTRONICS CO., LTD.	E211048	
23		Plastic	PBT-RG301(r1) V-0 130℃	GUANGZHOU KINGFA SCIENCE & TECHNOLOGY CO., LTD.	E171666	
24		Base	E26	Any		
26		Tube	D=45mm 1.5T	Any		

2.2. Test Facility

Site Description

3m Anechoic Chamber : Jun.13, 2006 File on Federal Communication Commission
Registration Number: 90454

3m & 10m Anechoic Chamber : Jan.31, 2007 File on Federal Communication Commission
Registration Number: 794232

EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2004

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr.01, 2006

2.3. Measurement Uncertainty

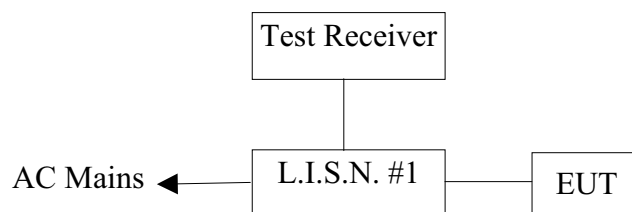
No.	Item	Uncertainty	Remark
1.	Uncertainty for Conducted Emission Test	1.22dB	
2.	Uncertainty for Radiated Emission Test	3.14dB	3m Chamber
3.	Uncertainty for Radiated Emission Test	3.18dB	10m Chamber
4.	Uncertainty for Power Clamp Test	1.38dB	

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 15, 06	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	May 15, 06	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 15, 06	1 Year
4.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug.16, 06	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Aug.16, 06	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug.16, 06	1/2 Year

3.2. Block Diagram of Test Setup



(EUT: Compact Fluorescent Lamp)

3.3. Power Line Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
450kHz ~ 2.51kHz	48	N/A
2.51kHz ~ 3MHz	70	N/A
3MHz ~ 30MHz	48	N/A

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Compact Fluorescent Lamp (EUT)

Model Number : NHSC14, NHSC11, NHSC09, NHSC07
 Serial Number : N/A
 Manufacturer : LEEDARSON LIGHTING CO., LTD.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown on Section 3.2..

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (ON) and test it.

3.6. Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission levels. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 450kHz to 30MHz is checked.

The test result are reported on Section 3.7

3.7. Power Line Conducted Emission Test Results

PASS.

The EUT with the following test modes was tested and all the test results are listed in next pages.

EUT: Compact Fluorescent Lamp

Model No. : NHSC14, NHSC11, NHSC09, NHSC07

Test Date: Feb.09, 2007 Temperature: 25.9°C Humidity: 55%

The details of test models are as follows :

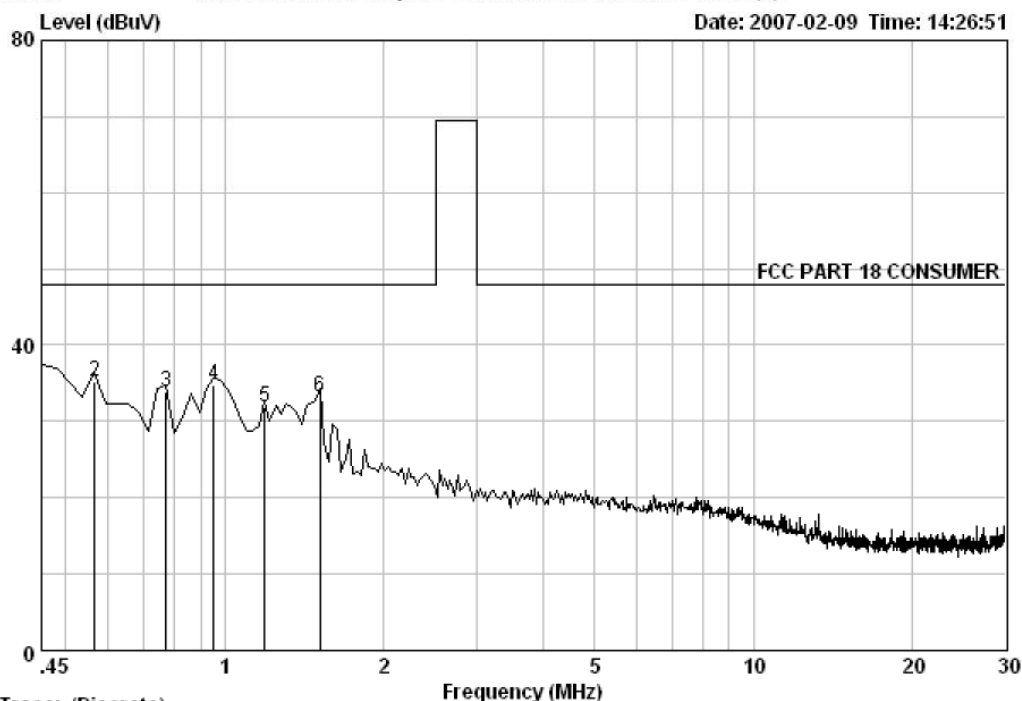
No.	Test Mode	Model No.	Reference Test Data No.	
			VA	VB
1.	ON	NHSC14	#8	#7
2.		NHSC11	#5	#6
3.		NHSC09	#1	#2
4.		NHSC07	#4	#3



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Data: 8

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Trace: (Discrete)

Site no.	: Audix 1#CE	Data no.	: 8
Dis. / Ant.	: -- VA KNW-407	LISN Phase	:
Limit	: FCC PART 18 CONSUMER		
Env. / Ins.	: 25.9°C/55% ESHS10	Engineer	: SECO
EUT	: Compact Fluorescent Lamp	M/N	: NHSC14
Power Rating	: AC 120V/60Hz		
Test Mode	: On		

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.45	0.28	10.12	26.09	36.49	48.00	11.51	QP
2	0.57	0.24	10.12	24.94	35.30	48.00	12.70	QP
3	0.78	0.22	10.14	23.42	33.78	48.00	14.22	QP
4	0.95	0.21	10.12	24.33	34.66	48.00	13.34	QP
5	1.19	0.21	10.16	21.49	31.86	48.00	16.14	QP
6	1.51	0.20	10.17	22.87	33.24	48.00	14.76	QP

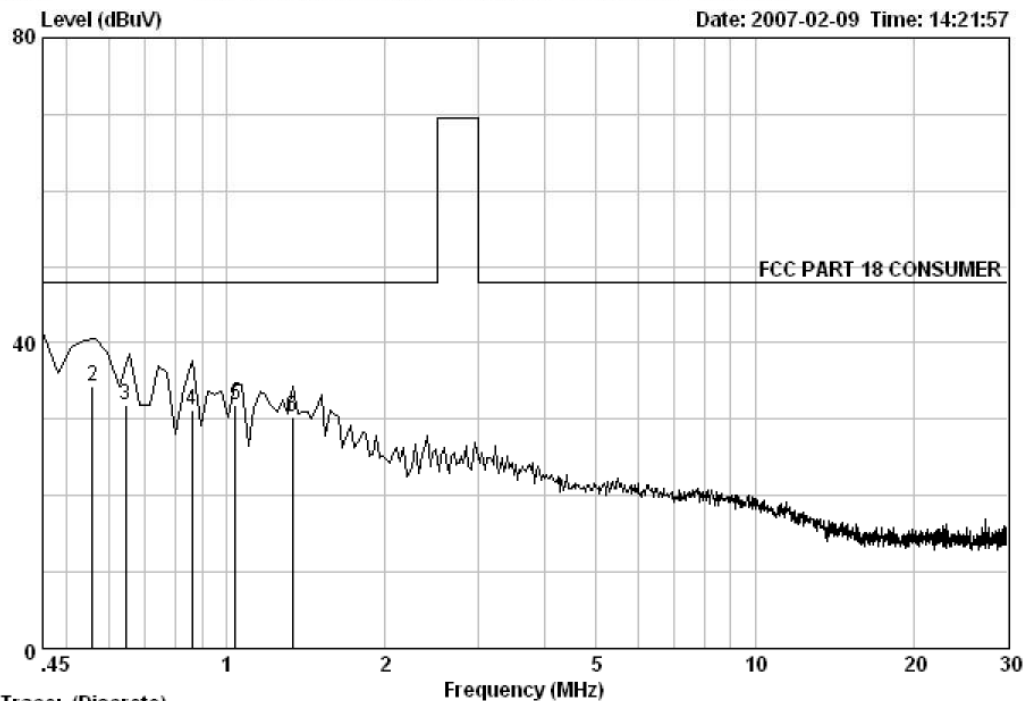
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 7

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Trace: (Discrete)

Site no.	: Audix 1#CE	Data no.	: 7
Dis. / Ant.	: -- VB KNW-407	LISN Phase	:
Limit	: FCC PART 18 CONSUMER		
Env. / Ins.	: 25.9*C/55% ESHS10	Engineer	: SECO
EUT	: Compact Fluorescent Lamp	M/N	: NHSC14
Power Rating	: AC 120V/60Hz		
Test Mode	: On		

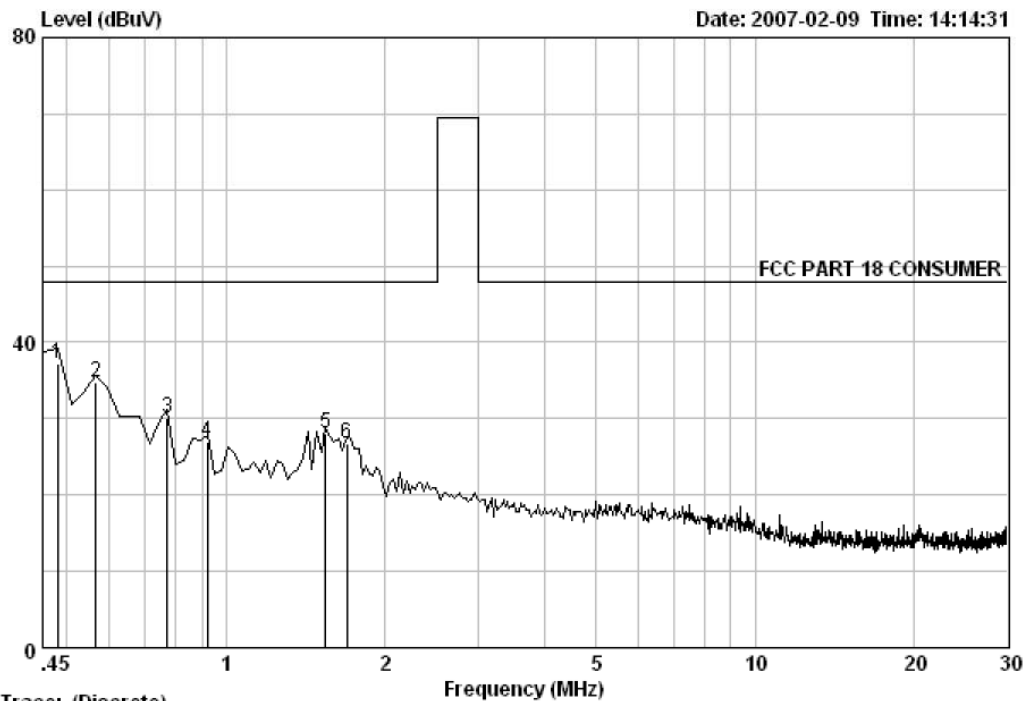
	Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.45	0.57	10.12	27.00	37.69	48.00	10.31	QP
2	0.56	0.48	10.12	23.71	34.31	48.00	13.69	QP
3	0.65	0.44	10.13	21.19	31.76	48.00	16.24	QP
4	0.86	0.38	10.13	20.70	31.21	48.00	16.79	QP
5	1.04	0.35	10.16	21.28	31.79	48.00	16.21	QP
6	1.34	0.33	10.17	19.89	30.39	48.00	17.61	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 5 File: D:\DATA\2007 Report\L\LEEDARSON\ACS70184-1.EMI (8)



Trace: (Discrete)

Site no. : Audix 1#CE Data no. : 5
Dis. / Ant. : -- VA KNW-407 LISN Phase :
Limit : FCC PART 18 CONSUMER
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : SECO
EUT : Compact Fluorescent Lamp M/N: NHSC11
Power Rating : AC 120V/60Hz
Test Mode : On

	Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.48	0.26	10.13	26.75	37.14	48.00	10.86	QP
2	0.57	0.24	10.12	24.39	34.75	48.00	13.25	QP
3	0.78	0.22	10.14	19.79	30.15	48.00	17.85	QP
4	0.92	0.21	10.12	16.63	26.96	48.00	21.04	QP
5	1.54	0.20	10.17	17.62	27.99	48.00	20.01	QP
6	1.69	0.20	10.16	16.30	26.66	48.00	21.34	QP

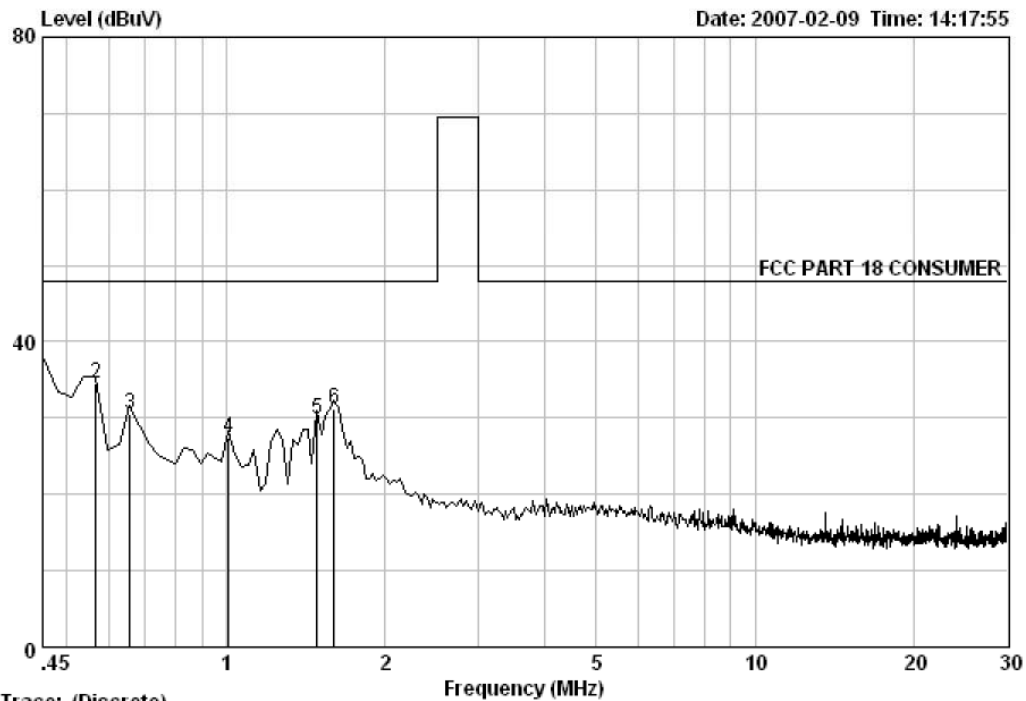
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 6

File: D:\DATA\2007 Report\L\LEEDARSON\ACS7Q184-1.EMI (8)



Trace: (Discrete)

Site no.	: Audix 1#CE	Data no.	: 6
Dis. / Ant.	: -- VB KNW-407	LISN Phase	:
Limit	: FCC PART 18 CONSUMER		
Env. / Ins.	: 25.9°C/55% ESHS10	Engineer	: SECO
EUT	: Compact Fluorescent Lamp	M/N: NHSC11	
Power Rating	: AC 120V/60Hz		
Test Mode	: On		

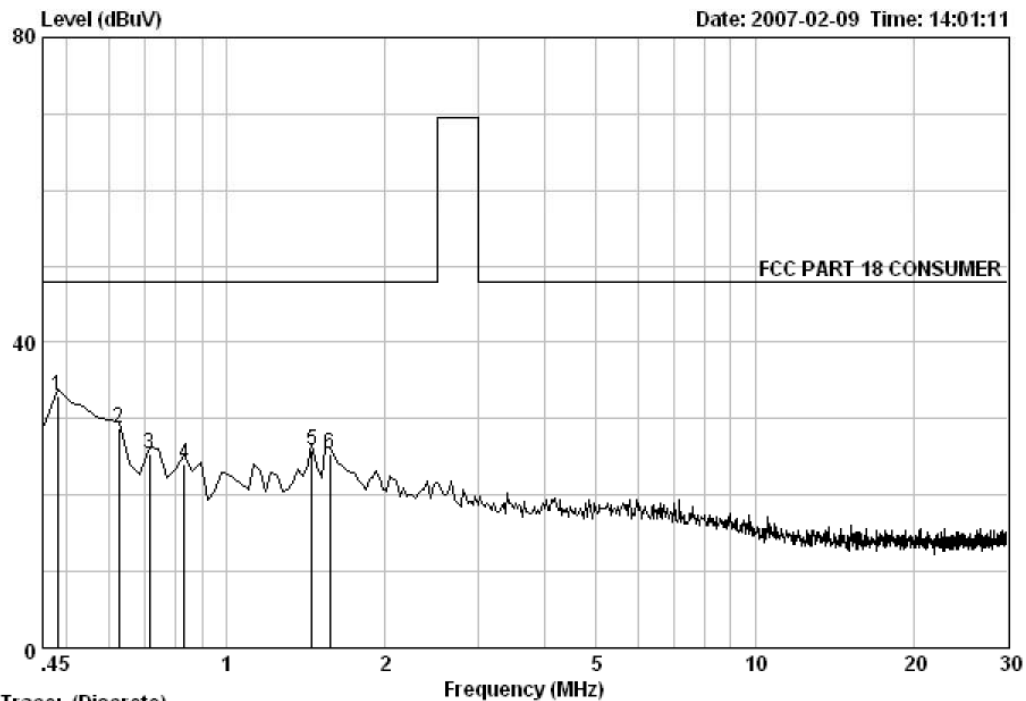
	Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.45	0.57	10.12	26.36	37.05	48.00	10.95	QP
2	0.57	0.48	10.12	23.88	34.48	48.00	13.52	QP
3	0.66	0.43	10.13	19.98	30.54	48.00	17.46	QP
4	1.01	0.35	10.15	16.84	27.34	48.00	20.66	QP
5	1.48	0.33	10.17	19.46	29.96	48.00	18.04	QP
6	1.60	0.32	10.17	20.80	31.29	48.00	16.71	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 1 File: D:\DATA\2007 Report\L\LEEDARSON\ACS70184-1.EMI (8)



Trace: (Discrete)

Site no. : Audix 1#CE Data no. : 1
Dis. / Ant. : -- VA KNW-407 LISN Phase :
Limit : FCC PART 18 CONSUMER
Env. / Ins. : 25.9°C/55% ESHS10 Engineer : SECO
EUT : Compact Fluorescent Lamp M/N: NHSC09
Power Rating : AC 120V/60Hz
Test Mode : On

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.48	0.26	10.13	22.49	32.88	48.00	15.12	QP
2	0.63	0.24	10.13	18.27	28.64	48.00	19.36	QP
3	0.72	0.23	10.14	14.99	25.36	48.00	22.64	QP
4	0.83	0.22	10.13	13.73	24.08	48.00	23.92	QP
5	1.45	0.20	10.17	15.44	25.81	48.00	22.19	QP
6	1.57	0.20	10.17	14.99	25.36	48.00	22.64	QP

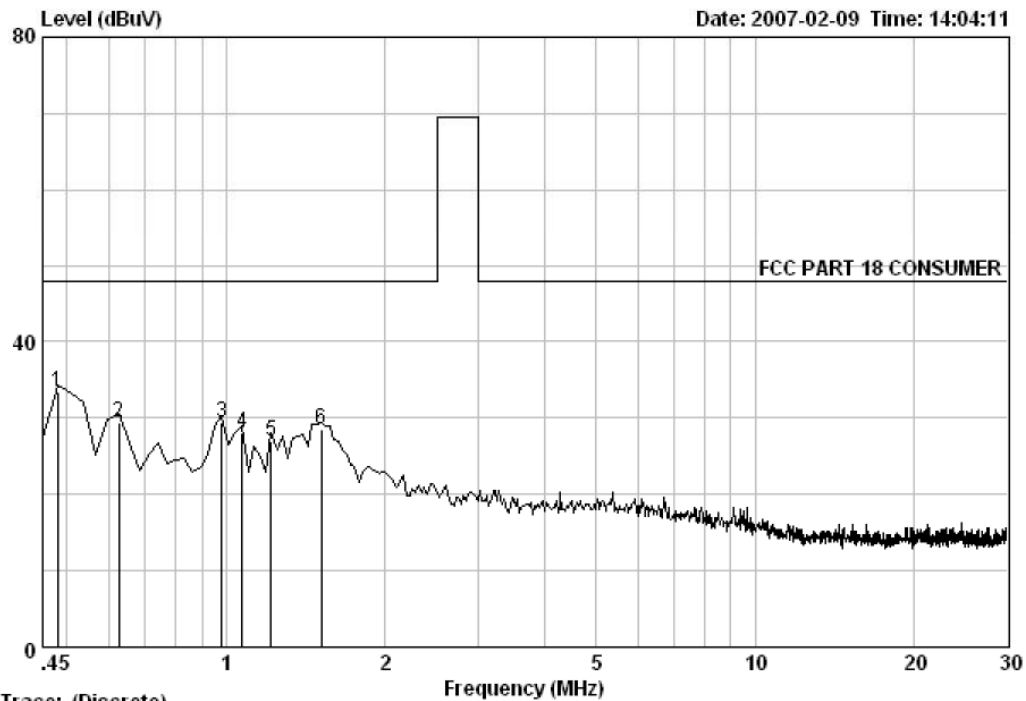
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 2

File: D:\DATA\2007 Report\LEEDARSON\ACS7Q184-1.EMI (8)



Trace: (Discrete)

Site no.	: Audix 1#CE	Data no.	: 2
Dis. / Ant.	: -- VB KNW-407	LISN Phase	:
Limit	: FCC PART 18 CONSUMER		
Env. / Ins.	: 25.9°C/55% ESHS10	Engineer	: SECO
EUT	: Compact Fluorescent Lamp	M/N	: NHSC09
Power Rating	: AC 120V/60Hz		
Test Mode	: On		

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.48	0.54	10.13	22.68	33.35	48.00	14.65	QP
2	0.63	0.45	10.13	18.92	29.50	48.00	18.50	QP
3	0.98	0.35	10.14	18.91	29.40	48.00	18.60	QP
4	1.07	0.35	10.16	17.50	28.01	48.00	19.99	QP
5	1.22	0.34	10.16	16.51	27.01	48.00	20.99	QP
6	1.51	0.33	10.17	18.02	28.52	48.00	19.48	QP

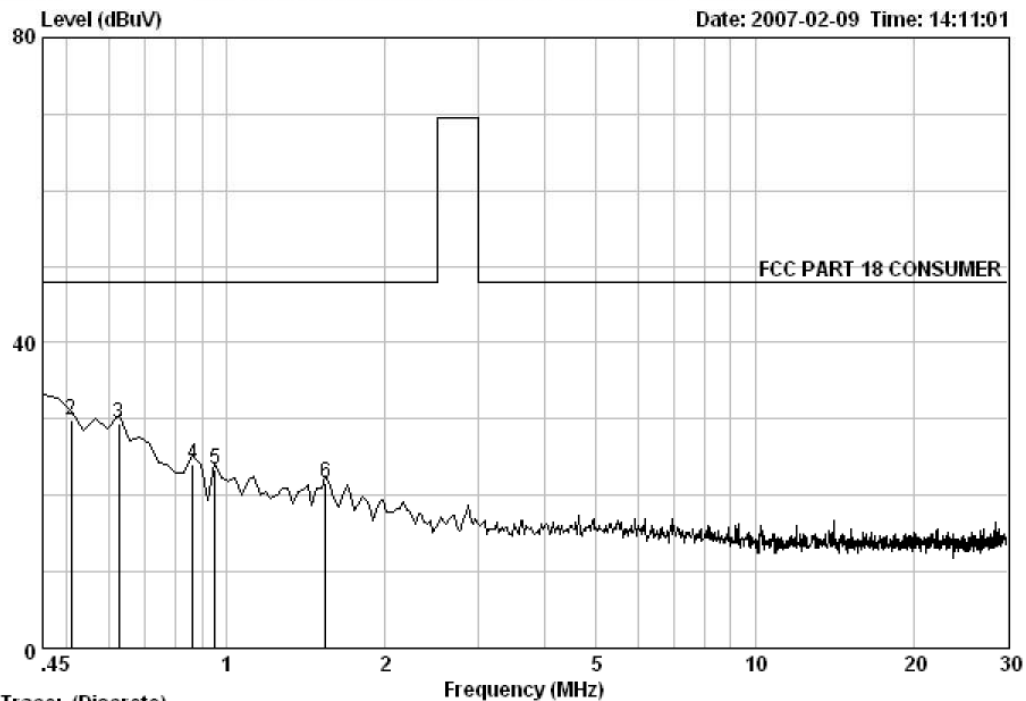
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 4

File: D:\DATA\2007 Report\LEEDARSON\ACS70184-1.EMI (8)



Trace: (Discrete)

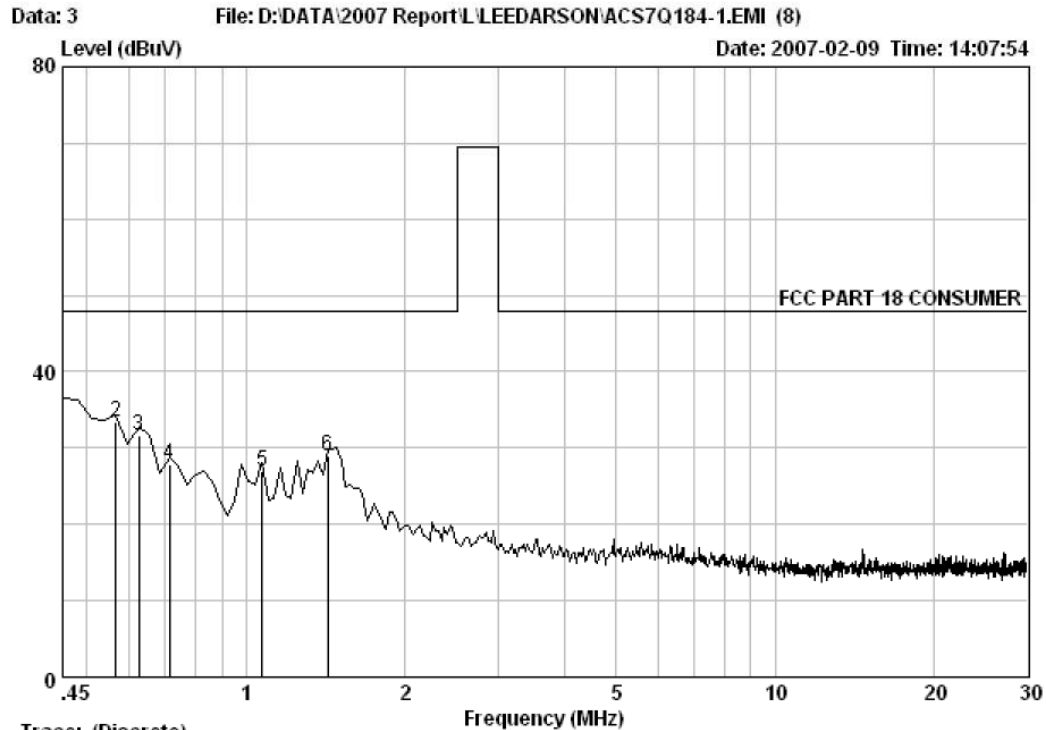
Site no.	: Audix 1#CE	Data no.	: 4
Dis. / Ant.	: -- VA KNW-407	LISN Phase	:
Limit	: FCC PART 18 CONSUMER		
Env. / Ins.	: 25.9°C/55% ESHS10	Engineer	: SECO
EUT	: Compact Fluorescent Lamp	M/N	: NHSC07
Power Rating	: AC 120V/60Hz		
Test Mode	: On		

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.45	0.28	10.12	21.90	32.30	48.00	15.70	QP
2	0.51	0.25	10.14	19.54	29.93	48.00	18.07	QP
3	0.63	0.24	10.13	19.10	29.47	48.00	18.53	QP
4	0.86	0.22	10.13	13.80	24.15	48.00	23.85	QP
5	0.95	0.21	10.12	12.96	23.29	48.00	24.71	QP
6	1.54	0.20	10.17	11.19	21.56	48.00	26.44	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Trace: (Discrete)

Site no. : Audix 1#CE	Data no. : 3
Dis. / Ant. : -- VB KNW-407	LISN Phase :
Limit : FCC PART 18 CONSUMER	
Env. / Ins. : 25.9°C/55% ESHS10	Engineer : SECO
EUT : Compact Fluorescent Lamp	M/N:NHSC07
Power Rating : AC 120V/60Hz	
Test Mode : On	

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.45	0.57	10.12	24.95	35.64	48.00	12.36	QP
2	0.57	0.48	10.12	22.75	33.35	48.00	14.65	QP
3	0.63	0.45	10.13	21.15	31.73	48.00	16.27	QP
4	0.72	0.41	10.14	17.24	27.79	48.00	20.21	QP
5	1.07	0.35	10.16	16.52	27.03	48.00	20.97	QP
6	1.43	0.33	10.17	18.46	28.96	48.00	19.04	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. MAGNETIC FIELD EMISSION TEST

4.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Loop Antenna	Chase	HLA6120	1062	June 06,06	1 Year
2	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May 15,06	1 Year

4.2. Block Diagram of Test Setup

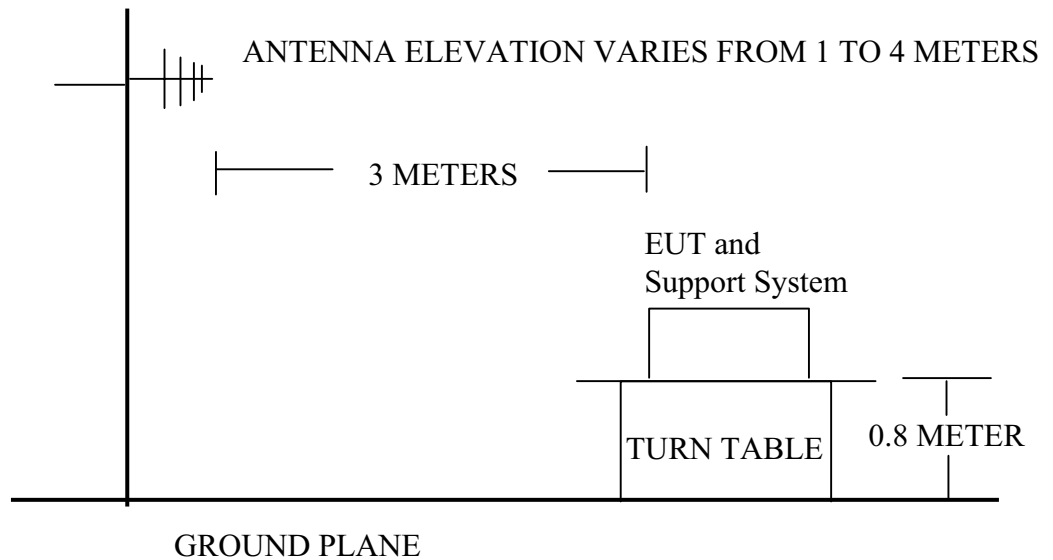
4.2.1. Block Diagram of connection between the EUT and simulators



(EUT: Compact Fluorescent Lamp)

4.2.2. In Anechoic Chamber

ANTENNA TOWER



4.3. Magnetic Field Emission Limit

All emanations from Non-ISM devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency band	Quasi-peak Electric Field Test Distance
MHz	3m dB(μ V/m)
0.009 - 30	63.5

Note: (1) The limit shall decreasing linearly with logarithm of frequency.
 (2) Distance refers to the distance in meters between the test instrument antenna and the closed point of any part of the E.U.T.

4.4. EUT Configuration on Test

The FCC part 18 C regulations test method must be used to find the maximum emission during Radiated Emission test.

The configuration of EUT is same as used in Conducted Emission test. Please refer to Section 3.4.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and the simulators as shown on Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let the EUT work in test mode (ON) and test it.

4.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. Measurements are performed at 3m distance with a 0.6m loop antenna as described in MP-5. The antenna shall be vertically installed, with the lower edge of the loop at 2m height above the floor.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS20) is 200Hz. The EUT is tested in Chamber. The test result are reported on Section 4.7

4.7. Magnetic Field Emission Test Results

PASS.

The EUT with the following test modes was tested and all the test results are listed in next pages.

EUT: Compact Fluorescent Lamp

Model No. : NHSC14, NHSC11, NHSC09, NHSC07

Test Date: Feb.12, 2007 Temperature: 24°C Humidity: 53%

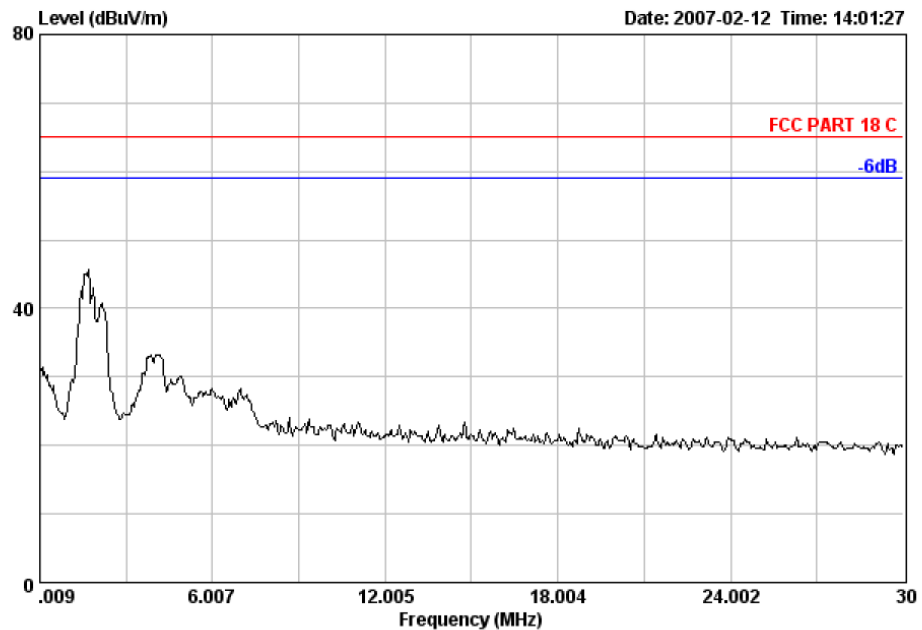
The details of test models are as follows :

No.	Test Mode	Model No.	Reference Test Data No.
1.	ON	NHSC14	#1
2.		NHSC11	#2
3.		NHSC09	#3
4.		NHSC07	#4



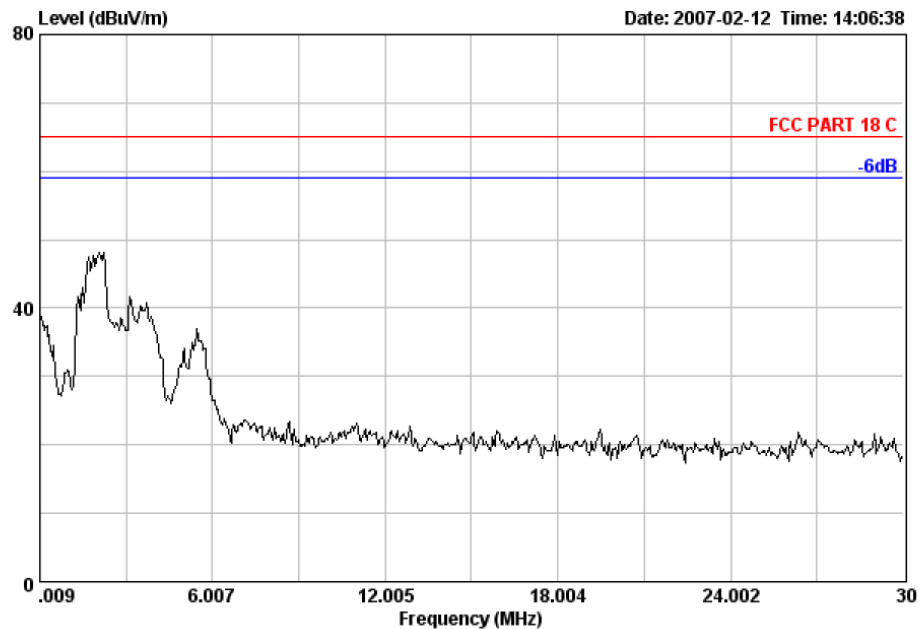
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Postcode:518057

Data: 1 File: D:\2007 Report\LEEDARSON.EMI (7)



Site no. : Audix No.1 Chamber Data no. : 1
Dis. / Ant. : 3m HLA6120 Ant. pol. :
Limit : FCC PART 18 C
Env. / Ins. : 24°C/53% ESVS20 Engineer : Skyle
EUT : Compact Fluorescent Lamp M/N:NHSC14
Power Rating : AC 120V/60Hz
Test Mode : On

Data: 2 File: D:\2007 Report\LEEDARSON.EMI (7)

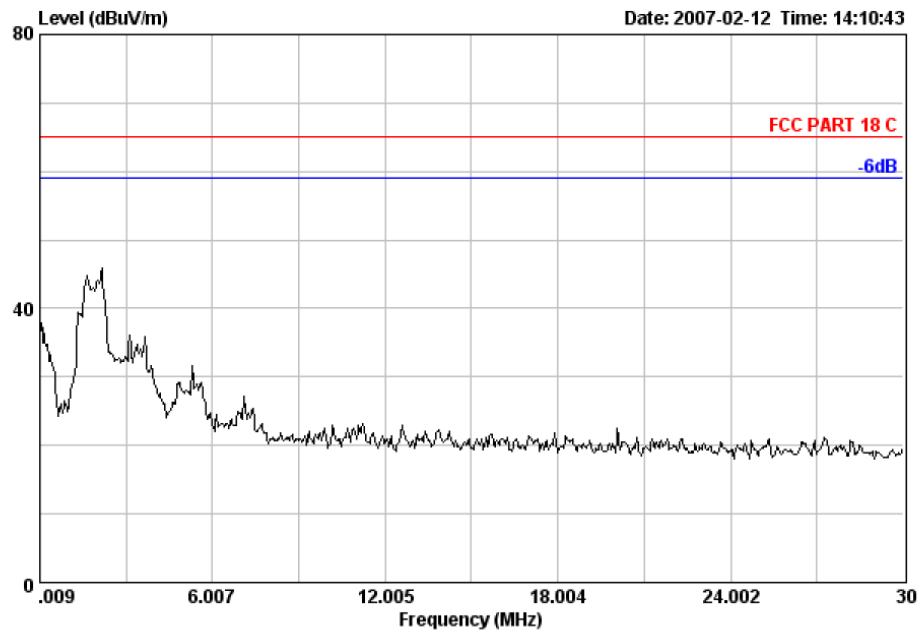


Site no. : Audix No.1 Chamber Data no. : 2
Dis. / Ant. : 3m HLA6120 Ant. pol. :
Limit : FCC PART 18 C
Env. / Ins. : 24°C/53% ESVS20 Engineer : Skyle
EUT : Compact Fluorescent Lamp M/N:NHSC11
Power Rating : AC 120V/60Hz
Test Mode : On



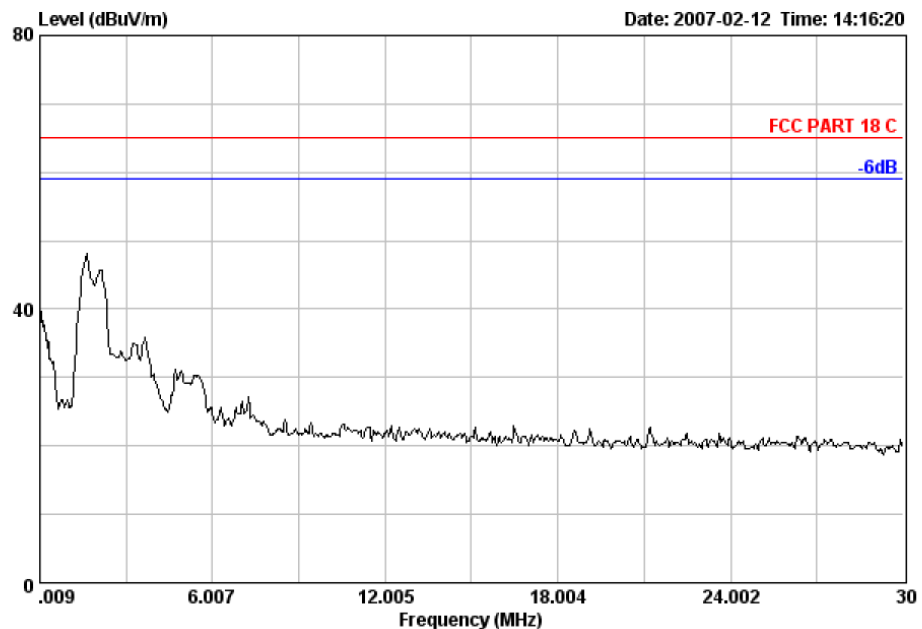
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Postcode:518057

Data: 3 File: D:\2007 Report\LEEDARSON.EMI (7)



Site no. : Audix No.1 Chamber Data no. : 3
Dis. / Ant. : 3m HLA6120 Ant. pol. :
Limit : FCC PART 18 C
Env. / Ins. : 24°C/53% ESVS20 Engineer : Skyle
EUT : Compact Fluorescent Lamp M/N:NHSC9
Power Rating : AC 120V/60Hz
Test Mode : On

Data: 4 File: D:\2007 Report\LEEDARSON.EMI (7)



Site no. : Audix No.1 Chamber Data no. : 4
Dis. / Ant. : 3m HLA6120 Ant. pol. :
Limit : FCC PART 18 C
Env. / Ins. : 24°C/53% ESVS20 Engineer : Skyle
EUT : Compact Fluorescent Lamp M/N:NHSC07
Power Rating : AC 120V/60Hz
Test Mode : On

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]